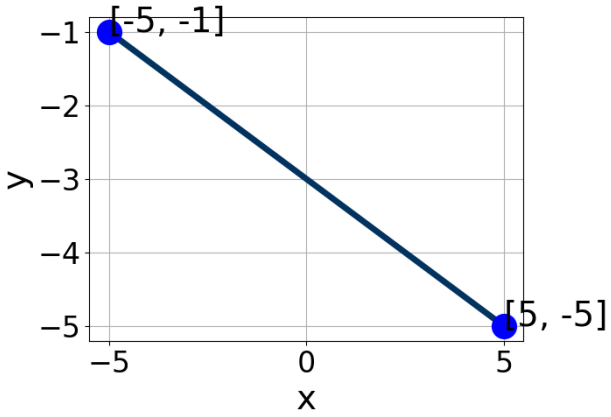
1. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.5, 0.5]$, $B \in [-1.5, 0]$, and $C \in [1, 5]$

B. $A \in [-4.2, -1.5]$, $B \in [-6.6, -3.8]$, and $C \in [9, 19]$

C. $A \in [-0.5, 0.5]$, $B \in [0.2, 3.3]$, and $C \in [-6, -2]$

D. $A \in [1.7, 2.2]$, $B \in [-6.6, -3.8]$, and $C \in [9, 19]$

E. $A \in [1.7, 2.2]$, $B \in [3.5, 6.5]$, and $C \in [-21, -13]$

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2. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $5x - 7y = 11$ and passing through the point $(3, -9)$.

A. $m \in [-1.95, -0.92]$ $b \in [-12.7, -11.3]$

B. $m \in [-1.95, -0.92]$ $b \in [-5.4, -2.3]$

C. $m \in [1.19, 2.58]$ $b \in [-14.4, -13.1]$

D. $m \in [-1.32, -0.04]$ $b \in [-5.4, -2.3]$

E. $m \in [-1.95, -0.92]$ $b \in [4.3, 7.1]$

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3. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-6x + 6}{7} - \frac{-3x + 4}{4} = \frac{4x - 8}{5}$$

A. $x \in [-0.6, 1]$

B. $x \in [0.4, 1.9]$

C. $x \in [10.4, 12.3]$

D. $x \in [2.4, 4]$

E. There are no real solutions.

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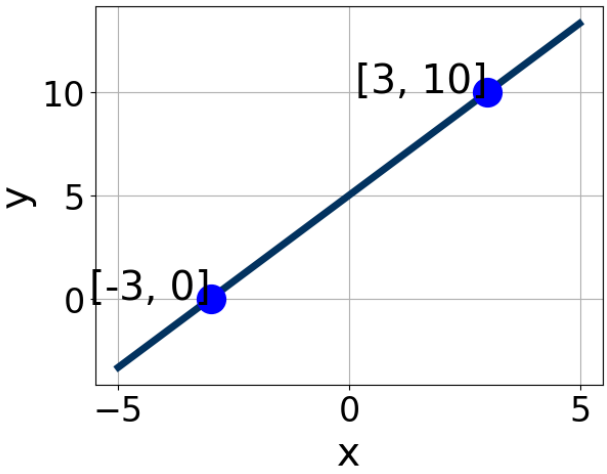
4. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-3, 0.3]$, $B \in [-0.5, 2.4]$, and $C \in [0, 12]$

B. $A \in [-8.2, -1.7]$, $B \in [2.9, 3.9]$, and $C \in [15, 26]$

C. $A \in [2.4, 5.7]$, $B \in [-3.7, -2.4]$, and $C \in [-15, -13]$

D. $A \in [2.4, 5.7]$, $B \in [2.9, 3.9]$, and $C \in [15, 26]$

E. $A \in [-3, 0.3]$, $B \in [-2.2, -0.9]$, and $C \in [-8, -3]$

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $9x - 8y = 7$ and passing through the point $(-3, -5)$.

A. $m \in [1.01, 1.38]$ $b \in [1.53, 1.73]$

B. $m \in [1.01, 1.38]$ $b \in [-1.96, -1.53]$

C. $m \in [1.01, 1.38]$ $b \in [-2.13, -1.8]$

D. $m \in [-0.45, 1.02]$ $b \in [-1.96, -1.53]$

E. $m \in [-1.49, 0.54]$ $b \in [-8.58, -8.29]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-3x+8}{3} - \frac{8x-9}{7} = \frac{-3x-9}{5}$$

A. $x \in [2.73, 5.73]$

B. $x \in [-1.28, 1.72]$

C. $x \in [1.06, 3.06]$

D. $x \in [15.85, 18.85]$

E. There are no real solutions.

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7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-4, -3) \text{ and } (8, -9)$$

A. $m \in [-0.54, 0.07]$ $b \in [-8, -4]$

B. $m \in [0.44, 0.55]$ $b \in [-13, -12]$

C. $m \in [-0.54, 0.07]$ $b \in [-17, -15]$

D. $m \in [-0.54, 0.07]$ $b \in [5, 7]$

E. $m \in [-0.54, 0.07]$ $b \in [-3, 2]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-15(-3x+5) = -17(-19x+11)$$

A. $x \in [0.79, 1.37]$

B. $x \in [0.05, 0.69]$

C. $x \in [-1.11, -0.94]$

D. $x \in [0.57, 0.93]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-3, 9) \text{ and } (8, 2)$$

A. $m \in [-2.49, 0.19]$ $b \in [10.07, 12.91]$

B. $m \in [0.47, 2.35]$ $b \in [-3.67, -2.56]$

C. $m \in [-2.49, 0.19]$ $b \in [-6.04, -5.31]$

D. $m \in [-2.49, 0.19]$ $b \in [-7.21, -6.31]$

E. $m \in [-2.49, 0.19]$ $b \in [6.55, 7.96]$

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10. Solve the equation below. Then, choose the interval that contains the solution.

$$-15(13x + 14) = -12(-5x - 16)$$

A. $x \in [-0.25, -0.11]$

B. $x \in [-0.12, -0.05]$

C. $x \in [-1.67, -1.46]$

D. $x \in [0.01, 0.09]$

E. There are no real solutions.
